



# Certificate of Analysis

**ULTRAgrade™ Ion Chromatography Solution:** 1000 µg/mL Calcium (Ca<sup>+2</sup>)

**Catalog Number:** ICC-103

**Lot Number:** P00743

**Job Number:** J00014992

**Lot Issue Date:** 07/19/2012

**Expiration Date:** 08/31/2016

**Starting Material:** Calcium Nitrate Tetrahydrate

**Starting Material Purity:** 99.9%

**Starting Material Lot No.:** BH00517

**Matrix:** trace (0.2%) nitric acid in low TOC water (< 50 ppb)

**Certified Value:** 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

## Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3109a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.



ISO 17025:2005  
Accredited  
A2LA  
Cert. No. 0851.01

ISO 9001:2000  
Registered  
TUV USA, Inc.  
Cert. No. 06-1004

  
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